Determination of Rangeland Health

The Record of Decision (ROD) for the New Mexico Standards for Public Land Health and Guidelines for Livestock Grazing Management (dated January 2001) adopted three Standards for Public Land Health. These are (1) Upland Sites Standard, (2) Biotic Communities, Including Native, Threatened, Endangered, and Special Status Species Standard and (3) Riparian Sites Standard.

The ROD also established a process for the BLM Field Offices for the implementation. Through a public participation process, the Roswell Field Office developed and adopted indicators to use in conjunction with existing monitoring data to assess these Standards.

Field assessment worksheets and other available data which evaluate the local indicators, were completed for this allotment. Based on the assessments, it is my determination that the Public Lands within the Railroad Mtn. Allotment #65025 meet the Upland Sites Standard and (2) Biotic Communities, Including Native, Threatened, Endangered, and Special Status Species Standard. There are no Public Land riparian areas on this allotment, therefore this Standard will not addressed.

/s/ T. R. KREAGER	08/28/2003
Assistant Field Manager	Date

Standards of Public Land Health
Evaluation of 65025 RAILROAD MTN Allotment
[05/13/2003]

The Roswell Field Office conducted rangeland health assessments at three study sites within the Railroad Mtn. Allotment no. 65025. The assessments looked at the Soil/Site Stability, Hydrologic Function and Biotic Integrity indicators within the vicinity of each study site. Existing monitoring data was incorporated into and in support of the field assessment. The summary of each assessment is attached and shown in the following table.

Study Area or Assessment Area	UPLAND			BIOTIC			RIPARIAN		
	Meets	Monitor an Indicator	Does Not Meet	Meets	Monitor an Indicator	Does Not Meet	Meets	Monitor an Indicator	Does Not Meet
65025-MAIN GYP-D067	X			X			N/A		
65025-MAIN SANDY-D066 (*)	X			X			N/A		
65025-NORTH-D065 (*)	X			X			N/A		

Twenty-two indicators (22) were evaluated in Rangeland Health Assessments for #65025 Railroad Mtn. allotment;10 indicators assessed soil/site stability, 11 assessed hydrologic function and 13 assessed biotic integrity. These qualitative assessments together with quantitative information from long-term monitoring studies on 3 different study sites on the allotment were utilized to make rangeland health determinations. The quantitative evaluations were performed by the Roswell Field office staff approximately every 5 years starting in the early 1980's. These measurements included ground and vegetative cover and composition, production, frequency and ecological condition scores.

The site area has been experiencing a drought for several years which has had an impact on this allotment. The availability of water is one of the main factors affecting the distribution of plant communities in semi-arid environments. Assessments of the indicators ranged from None to Slight to Moderate to Extreme. The 3 sites evaluated represented 3 pastures; North, Main Sandy and Main Gyp. Main Sandy and North both rated in the Moderate to Extreme category for invasive plants where mesquite (Prosopis glandulosa) was common throughout the site. The bareground indicator rated Moderate to Extreme and Moderate on Main Sandy and North pastures respectively. Main Sandy is a SD-3 Sandy ecological site with a Pajarito-Bluepoint soil phase which is indicative of hummocky coppice dunes. North is also SD-3 Sandy with a Poquita soil phase. A slight

reduction in perennial grass production is an indication that mesquite encroachment may be limiting this indicator. The amount of litter rated in the Moderate category for North, but still falls within the bottom end of the range expected for the ECological Site Description (ESD). All other indicators rated in the None to Slight to Slight to Moderate category for North pasture. Water flow patterns rated at Moderate for Main Sandy pasture with some minor erosion and instability which is usually common on coppice dune areas. A majority of the indicators however on Main Sandy pasture rated in the Moderate category. This suggests that a more critical evaluation may be required for this pasture and possibly take measures to curtail the brush encroachment and enhance this site's future potential. Main Gyp pasture's indicators rated in the None to Slight to Slight to Moderate category, with the exception of Pedestals and/or Terracettes, Annual production, Invasive plants, and Physical/Chemical crusts which all rated in the Moderate category. Occassional pedestalling is present on this site. Potential production of 50-60% of perennial forage and invasive plants such as mesquite and cholla (Opuntia spp.), may indicate a possible correlation between the two. Biological crusts also rated in the Moderate category and was evident only in isolated patches or in the middle of protected bunch grass patches such as alkali sacaton (Sporobolus airoides), void of vegetation.

The drought and wind and water erosion in the area of the Main Gyp has possibly decreased the amount of plant cover and possibly decreased infiltration into the soil which may have increased the occurrence of pedestalling on plants and rocks. Water and wind has eroded the soils which has elevated the plants and rocks, which has created the pedestalls. Physical and biological crusts occur in protected areas with a minor component in interspaces, which has a moderate affect on soil stability and water infiltration into the soils. Gypsum rock outcrops are present in the Main Gyp area from the Seven Rivers Formation.The Hollomex-Reeves-Milner soil unit in the area is underlain by gypsum, mudstone, and dolomite of the Seven Rivers Formation.

The drought in the area of the Main Sandy has had an affect on water flow patterns, pedestals, bareground, gullies, soil surface resistance to erosion, and plant community composition and distribution. Water flow patterns suggest that there is a minor increase in erosion with soild instability and erosion. The pedestals present suggest that there is slight active pedestaling from wind and water erosion. The amount of bareground present suggests that the drought has had a negative affect on the area. The gullies present are moderate in number and suggest active erosion resulting from slope and drought conditions. Resistance to soil erosion is reduced through out the site which suggest a decrease in organic matter in the soils. The drought in the site area has created a hydrolic condition that has decreased the amount of plant cover which has negatively affected water infiltration into the soil. Gypsum rock outcrops are present in the Main Sandy site area from the Yates Formation. The Pajarito-Bluepoint cmomplex, hummocky soil are underlain by gypsum, dolomite, and siltstone of the Yates Formation.

The drought in the sitre area of the North has possibly had a negative affect on bareground and litter amount. The amount of bareground present suggests that the drought has had a negative affect on the area. The litter amount present suggests that the drought has had a negative affect on the growing conditions which decreases the amount

of litter that is produced. Gypsum rock outcrops present in the North site area are from the Seven Rivers Formation. The Poquite fine sandy loam soils are underlain by gypsum, mudstone, and dolomite of the Seven Rivers Formation.

It is the professional opinion of the Assessment Team, this allotment meets the majority of standards for upland and biotic attributes. Further investigation may be required on those areas and similar ecological sites where brush encroachment may pose a problem in the future.

The (*) indicates that the assessment had one or more indicator(s) rated moderate/extreme or extreme. These indicators are:

- Bare Ground
- Invasive Plants

These indicators by themselves are not enough to rate the site as not meeting a standard but may warrant future monitoring.

Recommendations:

RFOs Upland and Biotic Standard Assessment Summary Worksheet			
SITE 65025-MAIN GYP-D067			
Legal Land Desc	SESE 33 0070S 0260E Meridian 23	Acreage	1238
Ecosite		Photo Taken	N
Watershed	13060003220 FILLMORE		
Observers	SPAIN/NAVARRO/MCGEE	Observation Date	05/13/2003
County Soil Survey	NM644 CHAVES NORTH	Soil Var/Taxad	
Soil Map Unit	HMA	Soil Taxon Name	HOLLOMEX
Texture Class	NM644 VFSL	Soil Phase	HOLLOMEX-REEVES-MILNER
Texture Modifier	NM644 LOAM,DRY		
Observed Avg Annual Precipitation		Observed Avg Growing Season Precipitation	
NOAA Annual Precipitation	12.64	NOAA Growing Season Precipitation	8.3
NOAA Avg Annual Precipitation	13.2	NOAA Avg Growing Season Precipitation	10.84
Disturbances and Animal Use:			

Part 2. Attributes and Indicators

		Departure from Ecological Site Description/Ecological Reference Areas				
Attribute	Indicators	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills					X
Comments:						
S H	Water Flow Patterns				X	
Comments:						
S H	Pedestals and/or Terracettes			X		
Comments:						

S H	Bare Ground				X	
Comments:						
S H	Gullies					X
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:						
H	Litter Movement				X	
Comments:						
S H B	Soil Surface Resistance to Erosion					X
Comments:						
S H B	Soil Surface Loss or Degradation					X
Comments:						
H	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X	
Comments:						
S H B	Compaction Layer					X
Comments:						
B	Functional/Structural Groups				X	
Comments:	Should Alkali Sacaton be here?					
B	Plant Mortality/Decadence					X
Comments:						
H B	Litter Amount				X	
Comments:						
B	Annual Production			X		
Comments:						
B	Invasive Plants			X		
Comments:	Mesquite, Cholla and Snakeweed.					
B	Reproductive Capability of Perennial Plants					X
Comments:						
S	Physical/Chemical/Biological Crusts			X		

Comments:						
B	Wildlife Habitat				X	
Comments:						
B	Wildlife Populations				X	
Comments:						
B	Special Status Species Habitat					X
Comments:	None Known to occur					
B	Special Status Species Populations					X
Comments:	None known to occur					

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	2	2	6
H	Hydrologic	0	0	1	5	5
B	Biotic	0	0	2	4	7

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be sued when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	2	8
Hydrologic		0	1	10

Biotic		0	2	11

Site Notes: Soil taxon name and soil phase presently indicate GLENDALE and GLENDALE-HARKEY respectively. This cannot be the case in a GYP Upland range site. It has been changed to Hollonex-Milner-Reeves.

Due to the absence of Alkali sacaton, it is possible that this range site and surrounding area may historically not be inhabited by this species of grass as a gyp upland site would normally have. There is some indication of light use by livestock.

RFOs Upland and Biotic Standard Assessment Summary Worksheet			
SITE 65025-MAIN SANDY-D066			
Legal Land Desc	NENW 1 0080S 0260E Meridian 23	Acreage	1901
Ecosite		Photo Taken	N
Watershed	13060003220 FILLMORE		
Observers	SPAIN/NAVARRO/MCGEE	Observation Date	05/13/2003
County Soil Survey	NM644 CHAVES NORTH	Soil Var/Taxad	
Soil Map Unit	PBB	Soil Taxon Name	PAJARITO
Texture Class	NM644 FSL	Soil Phase	PAJARITO-BLUEPOINT
Texture Modifier	NM644 FINE SANDY LOAM,HU		
Observed Avg Annual Precipitation		Observed Avg Growing Season Precipitation	
NOAA Annual Precipitation	12.64	NOAA Growing Season Precipitation	8.3
NOAA Avg Annual Precipitation	13.2	NOAA Avg Growing Season Precipitation	10.84
Disturbances and Animal Use:			

Part 2. Attributes and Indicators

		Departure from Ecological Site Description/Ecological Reference Areas				
Attribute	Indicators	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills					X
Comments:						
S H	Water Flow Patterns			X		
Comments:						
S H	Pedestals and/or Terracettes			X		

Comments:						
S H	Bare Ground		X			
Comments:						
S H	Gullies			X		
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:						
H	Litter Movement				X	
Comments:						
S H B	Soil Surface Resistance to Erosion			X		
Comments:						
S H B	Soil Surface Loss or Degradation				X	
Comments:						
H	Plant Community Composition and Distribution Relative to Infiltration and Runoff			X		
Comments:						
S H B	Compaction Layer					X
Comments:						
B	Functional/Structural Groups			X		
Comments:						
B	Plant Mortality/Decadence			X		
Comments:						
H B	Litter Amount				X	
Comments:						
B	Annual Production			X		
Comments:						
B	Invasive Plants		X			
Comments:						
B	Reproductive Capability of Perennial Plants				X	
Comments:						
S	Physical/Chemical/Biological				X	

	Crusts					
Comments:						
B	Wildlife Habitat				X	
Comments:						
B	Wildlife Populations				X	
Comments:						
B	Special Status Species Habitat					X
Comments:	None known to occur.					
B	Special Status Species Populations					X
Comments:	None known to occur.					

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	1	4	2	3
H	Hydrologic	0	1	5	3	2
B	Biotic	0	1	4	5	3

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be sued when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		1	4	5

Hydrologic		1	5	5
Biotic		1	4	8
Site Notes: This site has some inclusions of shallower soils as indicated by the presence of javalina bush and dalea spp. But for the most part it is deeper sandy soil with Pajarito-Bluepoint. Black grama is not as evident as well as blue grama. This range site shows very little evidence of livestock use at the present time.				

RFOs Upland and Biotic Standard Assessment Summary Worksheet			
SITE 65025-NORTH-D065			
Legal Land Desc	SWSW 22 0070S 0260E Meridian 23	Acreage	1494
Ecosite		Photo Taken	N
Watershed	13060003220 FILLMORE		
Observers	SPAIN/NAVARRO/MCGEE	Observation Date	05/13/2003
County Soil Survey	NM644 CHAVES NORTH	Soil Var/Taxad	
Soil Map Unit	PoA	Soil Taxon Name	POQUITA
Texture Class	NM644 FSL	Soil Phase	POQUITA
Texture Modifier	NM644 FINE SANDY LOAM,DR		
Observed Avg Annual Precipitation		Observed Avg Growing Season Precipitation	
NOAA Annual Precipitation	12.64	NOAA Growing Season Precipitation	8.3
NOAA Avg Annual Precipitation	13.2	NOAA Avg Growing Season Precipitation	10.84
Disturbances and Animal Use:			

Part 2. Attributes and Indicators

		Departure from Ecological Site Description/Ecological Reference Areas				
Attribute	Indicators	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills					X
Comments:						
S H	Water Flow Patterns					X
Comments:						
S H	Pedestals and/or Terracettes					X
Comments:						
S H	Bare Ground			X		
Comments:	Criteria in site guide for this soil may not match.					

S H	Gullies					X
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:						
H	Litter Movement				X	
Comments:						
S H B	Soil Surface Resistance to Erosion				X	
Comments:						
S H B	Soil Surface Loss or Degradation					X
Comments:						
H	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X	
Comments:						
S H B	Compaction Layer					X
Comments:						
B	Functional/Structural Groups				X	
Comments:						
B	Plant Mortality/Decadence					X
Comments:						
H B	Litter Amount			X		
Comments:						
B	Annual Production				X	
Comments:						
B	Invasive Plants		X			
Comments:	mesquite					
B	Reproductive Capability of Perennial Plants					X
Comments:						
S	Physical/Chemical/Biological Crusts				X	
Comments:						
B	Wildlife Habitat				X	

Comments:						
B	Wildlife Populations				X	
Comments:						
B	Special Status Species Habitat					X
Comments:	None known to occur.					
B	Special Status Species Populations					X
Comments:	None known to occur.					

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	1	2	7
H	Hydrologic	0	0	2	3	6
B	Biotic	0	1	1	5	6

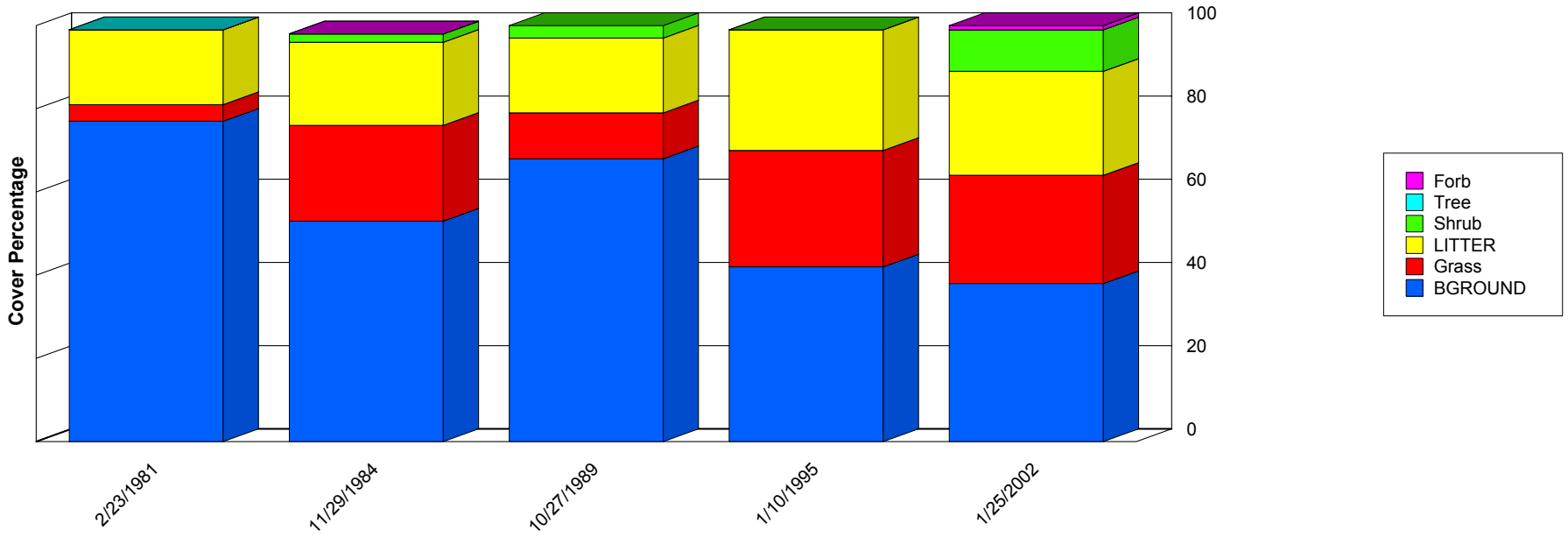
B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be sued when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	1	9
Hydrologic		0	2	9
Biotic		1	1	11

Site Notes: Mesquite is the main invasive species as it has encroached. Some evidence of

livestock is apparent.

Ground Cover Trends



	2/23/1981	11/29/1984	10/27/1989	1/10/1995	1/25/2002
BGROUND	77.00	53.00	68.00	42.00	38.00
Forb	0.00	0.00	0.00	0.00	1.00
Grass	4.00	23.00	11.00	28.00	26.00
LITTER	18.00	20.00	18.00	29.00	25.00
Shrub	0.00	2.00	3.00	0.00	10.00
Tree	0.00	0.00	0.00	0.00	0.00
Total	99.00	98.00	100.00	99.00	100.00

Report Parameters

SITE NAME LIKE	65025-MAIN GYP-D067
ON/AFTER	10/01/1980
ON/BEFORE	09/30/2002

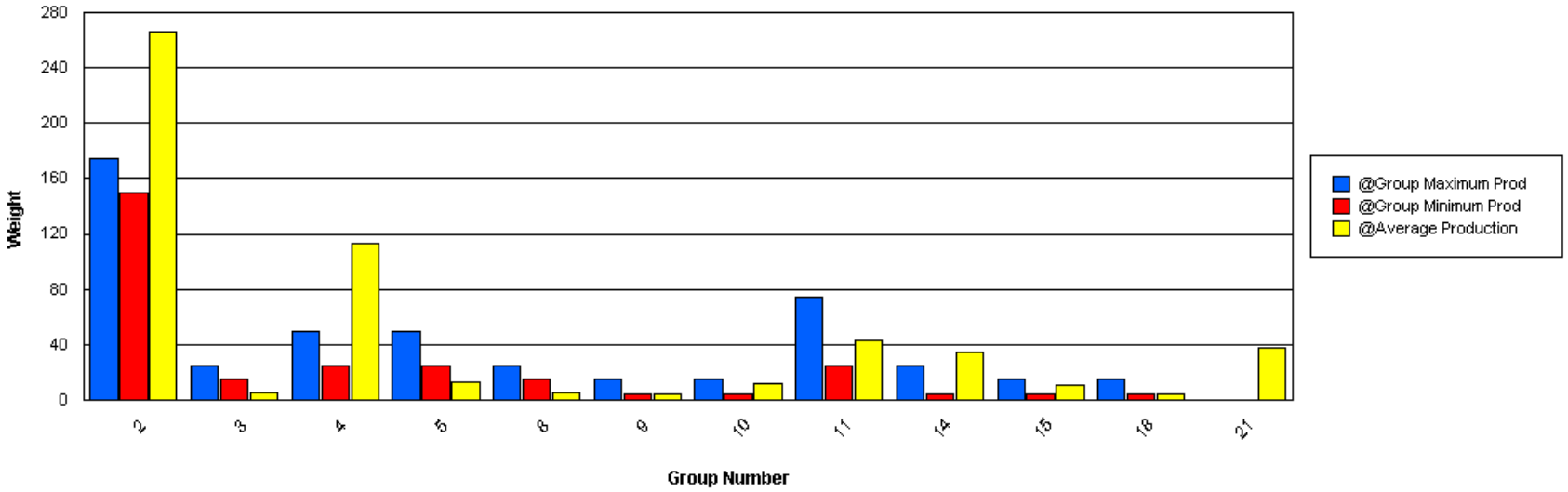
Functional / Structural Groups

Report Parameters

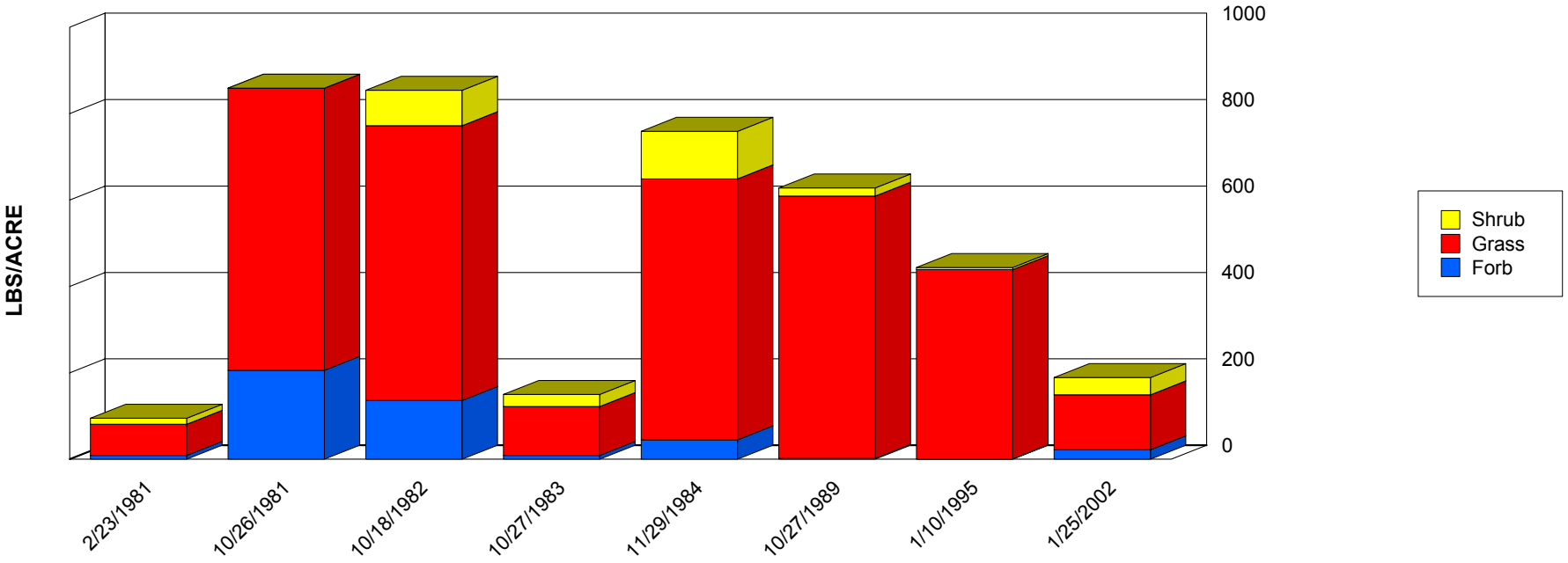
SITE NAME LIKE	65025-MAIN GYP-D067
ON/AFTER	10/01/1979
ON/BEFORE	09/30/2002
MIN LBS TO GRAPH	3
SELECTED ECOSITE	042CY006NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
2	Grass	BOBR	150	175	21.00	450.00	183.50	149.36
2	Grass	BOER4	150	175	0.00	250.00	82.50	98.38
3	Grass	MUPO2	15	25	0.00	37.00	6.17	13.79
4	Grass	BOGR2	25	50	0.00	212.00	70.88	70.74
4	Grass	SPCR	25	50	0.00	203.00	34.25	64.75
4	Grass	SPNE	25	50	0.00	28.00	7.67	10.96
5	Grass	ARIST	25	50	0.00	4.00	2.00	2.00
5	Grass	ERPU8	25	50	0.00	25.00	4.67	9.10
5	Grass	SCBR2	25	50	0.00	15.00	6.50	5.41
6	Grass	AAGG	0	5	0.00	1.00	0.17	0.37
8	Grass	HIMU2	15	25	0.00	11.00	5.80	3.87
9	Grass	PAOB	5	15	0.00	16.00	4.38	6.10
10	Grass	MUAR2	5	15	0.00	27.00	11.50	10.50
10	Grass	TRPI2	5	15	0.00	1.00	0.50	0.50
11	Forb	COCA2	25	75	0.00	13.00	6.50	6.50
11	Forb	COHI	25	75	0.00	120.00	36.80	44.87
14	Forb	AAFF	5	25	0.00	19.00	4.71	5.99
14	Forb	MENTZ	5	25	0.00	10.00	4.50	4.56
14	Forb	PECTI	5	25	0.00	3.00	1.50	1.50
14	Forb	PEPA2	5	25	0.00	118.00	23.80	47.10
15	Forb	LEMO2	5	15	0.00	10.00	3.75	3.90
15	Forb	MEST3	5	15	0.00	21.00	4.20	8.40
15	Forb	PPFF	5	15	0.00	16.00	3.29	5.44
18	Shrub	OPUNT	5	15	0.00	12.00	4.25	4.26
21	Shrub	GUSA2	0	0	0.00	100.00	35.57	37.29
21	Shrub	PRGL2	0	0	0.00	13.00	2.00	4.50

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV



Production Lbs/Acre Trends

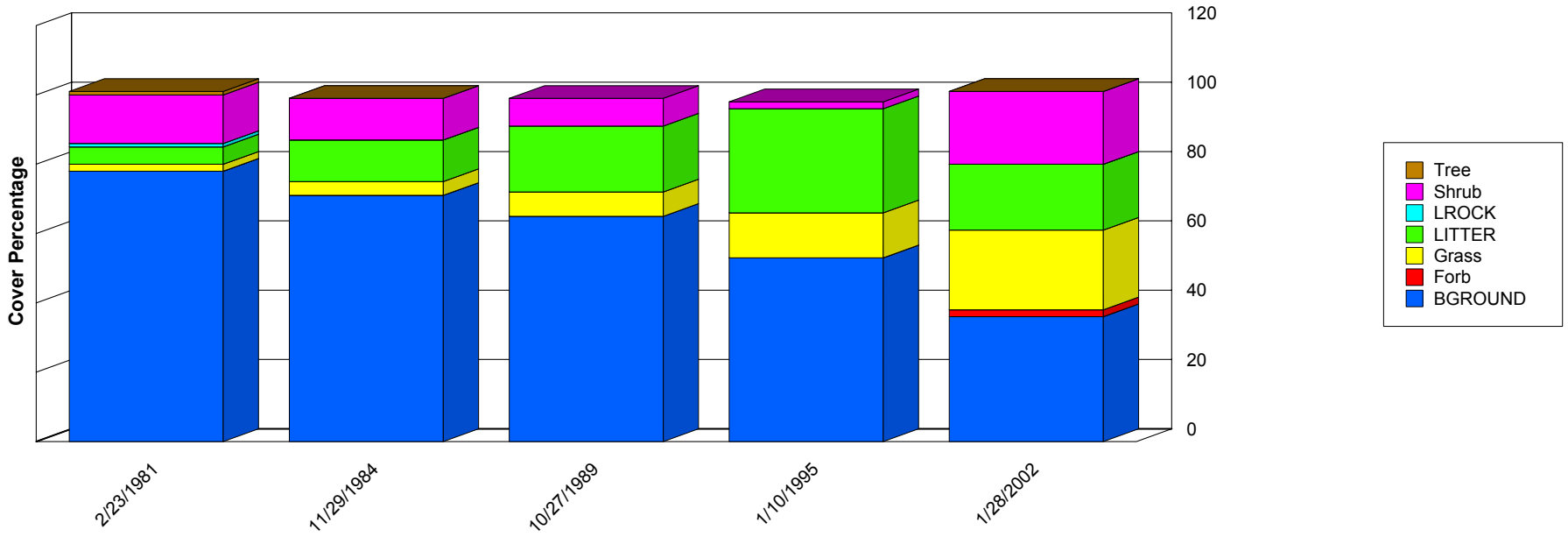


	2/23/1981	10/26/1981	10/18/1982	10/27/1983	11/29/1984	10/27/1989	1/10/1995	1/25/2002
Forb	**9.00**	**206.00**	**136.00**	**9.00**	**45.00**	**2.00**	**1.00**	**22.00**
Grass	**72.00**	**653.00**	**636.00**	**113.00**	**604.00**	**607.00**	**438.00**	**127.00**
Shrub	**14.00**	**0.00**	**82.00**	**28.00**	**110.00**	**19.00**	**5.00**	**40.00**
Total	**95.00**	**859.00**	**854.00**	**150.00**	**759.00**	**628.00**	**444.00**	**189.00**

Report Parameters

SITE NAME LIKE	65025-MAIN GYP-D067
ON/AFTER	10/01/1980
ON/BEFORE	09/30/2002

Ground Cover Trends



	2/23/1981	11/29/1984	10/27/1989	1/10/1995	1/28/2002
BGROUND	78.00	71.00	65.00	53.00	36.00
Forb	0.00	0.00	0.00	0.00	2.00
Grass	2.00	4.00	7.00	13.00	23.00
LITTER	5.00	12.00	19.00	30.00	19.00
LROCK	1.00	0.00	0.00	0.00	0.00
Shrub	14.00	12.00	8.00	2.00	21.00
Tree	1.00	0.00	0.00	0.00	0.00
Total	101.00	99.00	99.00	98.00	101.00

Report Parameters

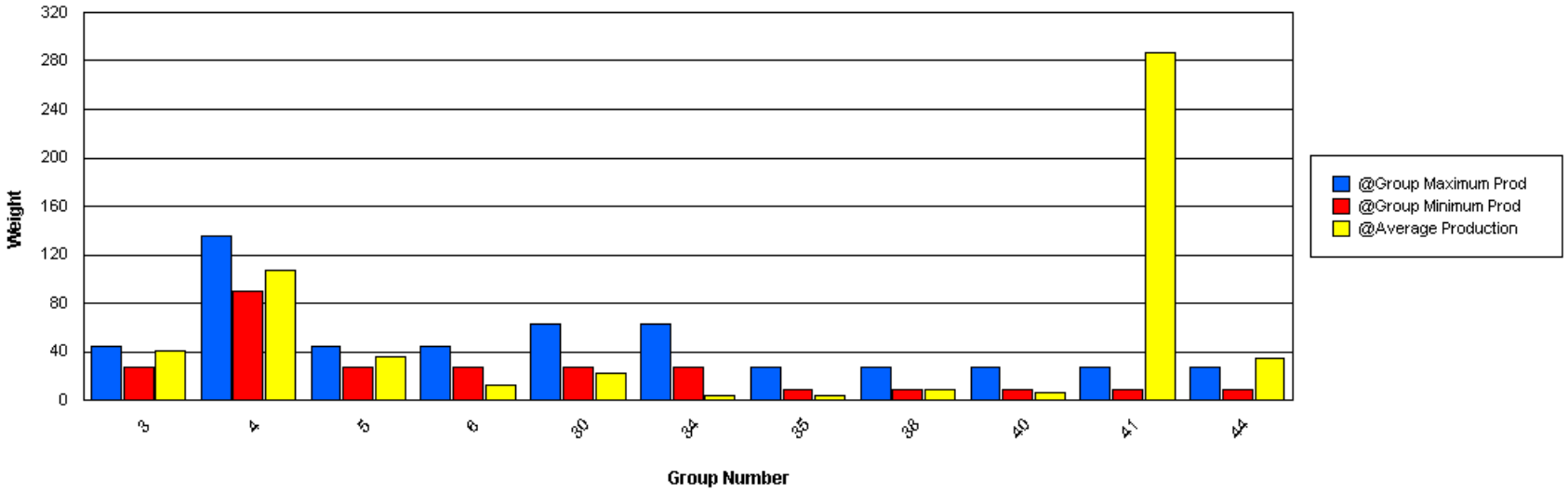
SITE NAME LIKE	65025-MAIN SANDY-D066
ON/AFTER	10/01/1980
ON/BEFORE	09/30/2002

Functional / Structural Groups

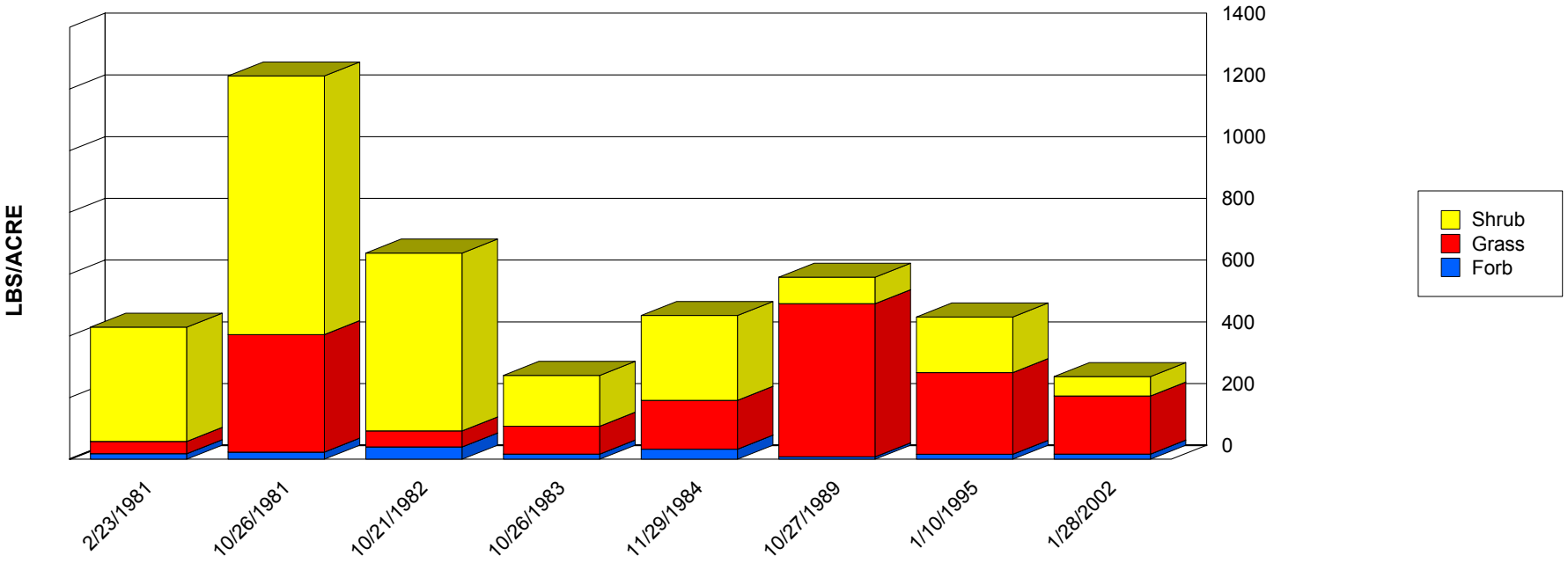
Report Parameters	
SITE NAME LIKE	65025-MAIN SANDY-D066
ON/AFTER	10/01/1979
ON/BEFORE	09/30/2002
MIN LBS TO GRAPH	3
SELECTED ECOSITE	042CY004NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
3	Grass	MUPO2	27	45	0.00	158.00	40.50	47.50
4	Grass	SPCO4	90	135	0.00	4.00	0.67	1.49
4	Grass	SPCR	90	135	0.00	317.00	100.71	103.17
4	Grass	SPFL2	90	135	0.00	24.00	6.17	9.28
5	Grass	ARIST	27	45	0.00	105.00	35.88	34.56
6	Grass	SEMA5	27	45	0.00	47.00	12.50	15.42
15	Grass	AAGG	9	45	0.00	1.00	0.17	0.37
29	Grass	ERPU8	9	27	0.00	4.00	2.00	1.58
30	Forb	CROTO	27	63	0.00	37.00	9.75	11.53
30	Forb	CRPO5	27	63	0.00	16.00	8.00	8.00
30	Forb	MELE2	27	63	0.00	9.00	3.25	3.42
30	Forb	SPCO	27	63	0.00	3.00	1.00	1.41
32	Forb	LEFE	27	63	0.00	5.00	1.00	2.00
34	Forb	AAFF	27	63	0.00	15.00	3.63	4.50
35	Forb	MEST3	9	27	0.00	16.00	3.20	6.40
35	Forb	PPFF	9	27	0.00	5.00	1.14	1.88
38	Shrub	LYCIU	9	27	0.00	7.00	2.33	3.30
38	Shrub	LYTO	9	27	0.00	13.00	6.50	6.50
40	Shrub	COER5	9	27	2.00	11.00	6.50	4.50
41	Shrub	ARFI2	9	27	0.00	222.00	49.71	72.25
41	Shrub	GUSA2	9	27	12.00	827.00	237.25	269.96
44	Shrub	HAPLO2	9	27	0.00	2.00	1.00	1.00
44	Shrub	PRGL2	9	27	0.00	160.00	29.63	51.21
44	Shrub	RHMI3	9	27	0.00	8.00	4.00	4.00

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV



Production Lbs/Acre Trends

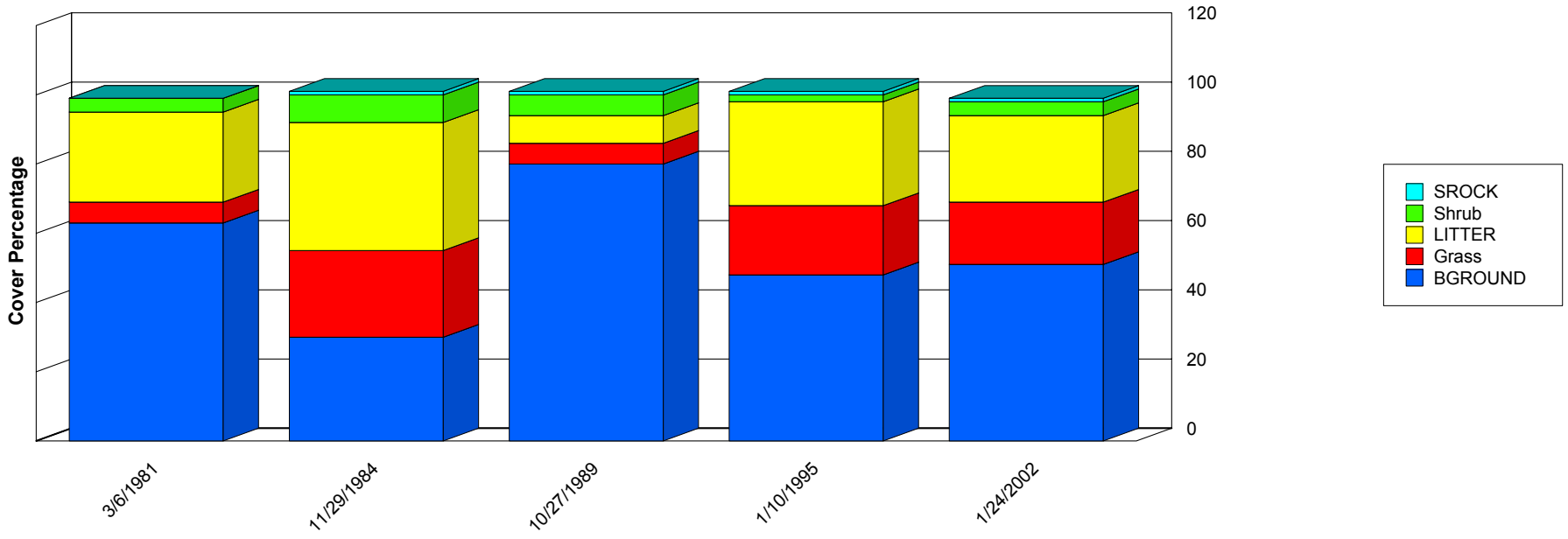


	2/23/1981	10/26/1981	10/21/1982	10/26/1983	11/29/1984	10/27/1989	1/10/1995	1/28/2002
Forb	**18.00**	**23.00**	**40.00**	**17.00**	**33.00**	**8.00**	**16.00**	**17.00**
Grass	**40.00**	**381.00**	**52.00**	**90.00**	**158.00**	**496.00**	**265.00**	**188.00**
Shrub	**370.00**	**838.00**	**576.00**	**165.00**	**275.00**	**86.00**	**180.00**	**63.00**
Total	**428.00**	**1,242.00**	**668.00**	**272.00**	**466.00**	**590.00**	**461.00**	**268.00**

Report Parameters

SITE NAME LIKE	65025-MAIN SANDY-D066
ON/AFTER	10/01/1980
ON/BEFORE	09/30/2002

Ground Cover Trends



	3/6/1981	11/29/1984	10/27/1989	1/10/1995	1/24/2002
BGROUND	63.00	30.00	80.00	48.00	51.00
Grass	6.00	25.00	6.00	20.00	18.00
LITTER	26.00	37.00	8.00	30.00	25.00
Shrub	4.00	8.00	6.00	2.00	4.00
SROCK	0.00	1.00	1.00	1.00	1.00
Total	99.00	101.00	101.00	101.00	99.00

Report Parameters

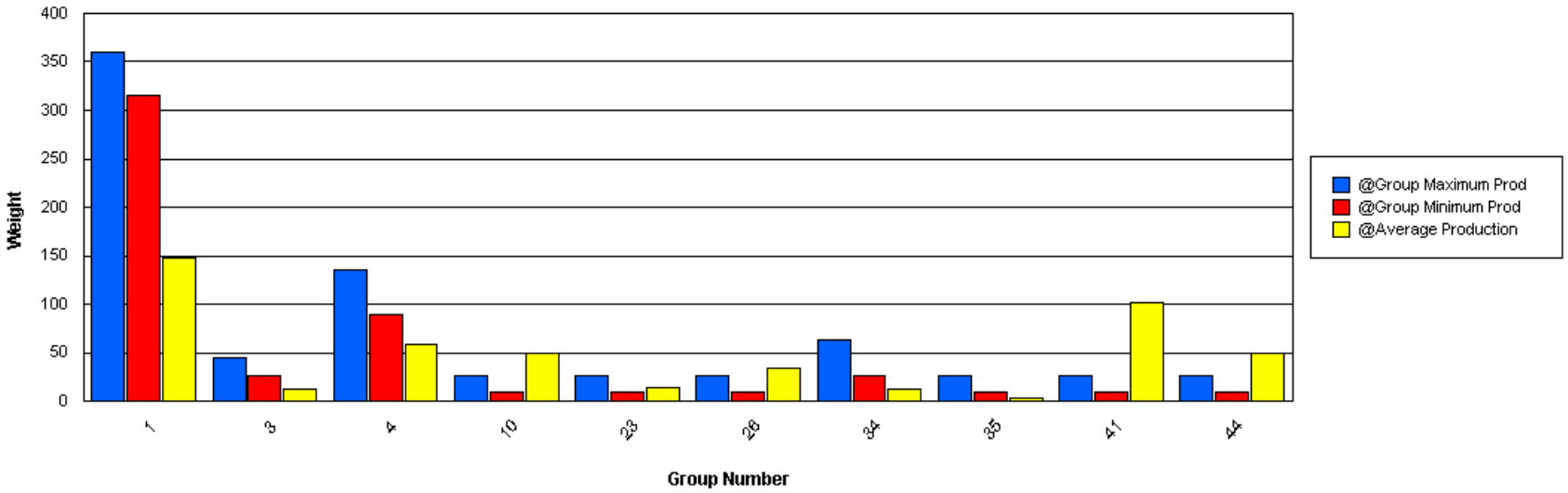
SITE NAME LIKE	65025-NORTH-D065
ON/AFTER	10/01/1980
ON/BEFORE	09/30/2002

Functional / Structural Groups

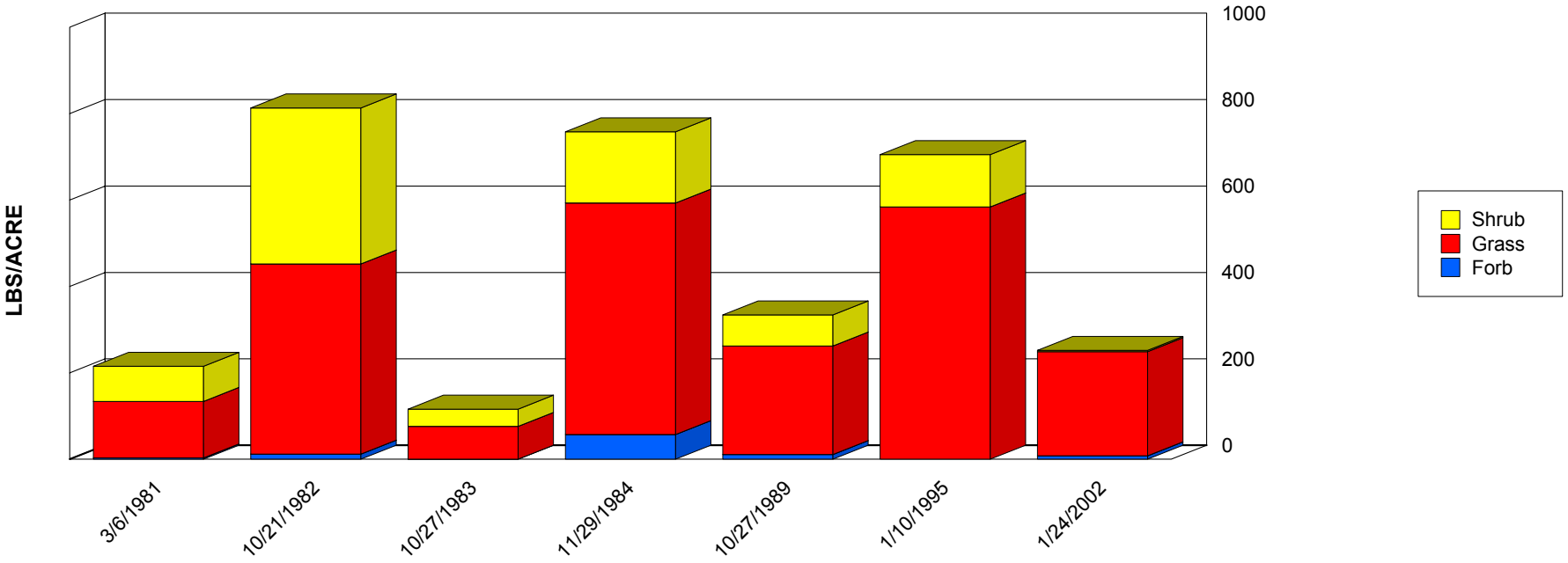
Report Parameters	
SITE NAME LIKE	65025-NORTH-D065
ON/AFTER	10/01/1979
ON/BEFORE	09/30/2002
MIN LBS TO GRAPH	3
SELECTED ECOSITE	042CY004NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOER4	315	360	36.00	396.00	148.29	122.55
2	Grass	BOGR2	45	90	0.00	2.00	1.14	0.83
3	Grass	MUPO2	27	45	0.00	25.00	12.43	9.16
4	Grass	SPCO4	90	135	0.00	45.00	10.00	17.61
4	Grass	SPCR	90	135	0.00	164.00	48.43	57.41
5	Grass	ARIST	27	45	0.00	10.00	2.00	3.38
10	Grass	HIMU2	9	27	0.00	113.00	49.00	40.48
23	Grass	MUAR2	9	27	1.00	56.00	14.14	17.57
26	Grass	SCBR2	9	27	9.00	94.00	33.43	26.24
29	Grass	ERPU8	9	27	0.00	2.00	1.17	0.90
30	Forb	CROTO	27	63	0.00	1.00	0.67	0.47
32	Forb	LESQU	27	63	0.00	7.00	1.75	3.03
34	Forb	AAFF	27	63	0.00	51.00	12.20	19.78
35	Forb	LEER	9	27	0.00	1.00	0.25	0.43
35	Forb	PENA	9	27	0.00	5.00	1.60	1.74
35	Forb	PPFF	9	27	0.00	2.00	0.40	0.80
35	Forb	SOEL	9	27	0.00	3.00	0.75	1.30
41	Shrub	GUSA2	9	27	3.00	242.00	101.80	87.46
44	Shrub	OPUNT	9	27	0.00	12.00	4.25	4.71
44	Shrub	PRGL2	9	27	0.00	119.00	45.14	50.97

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV



Production Lbs/Acre Trends



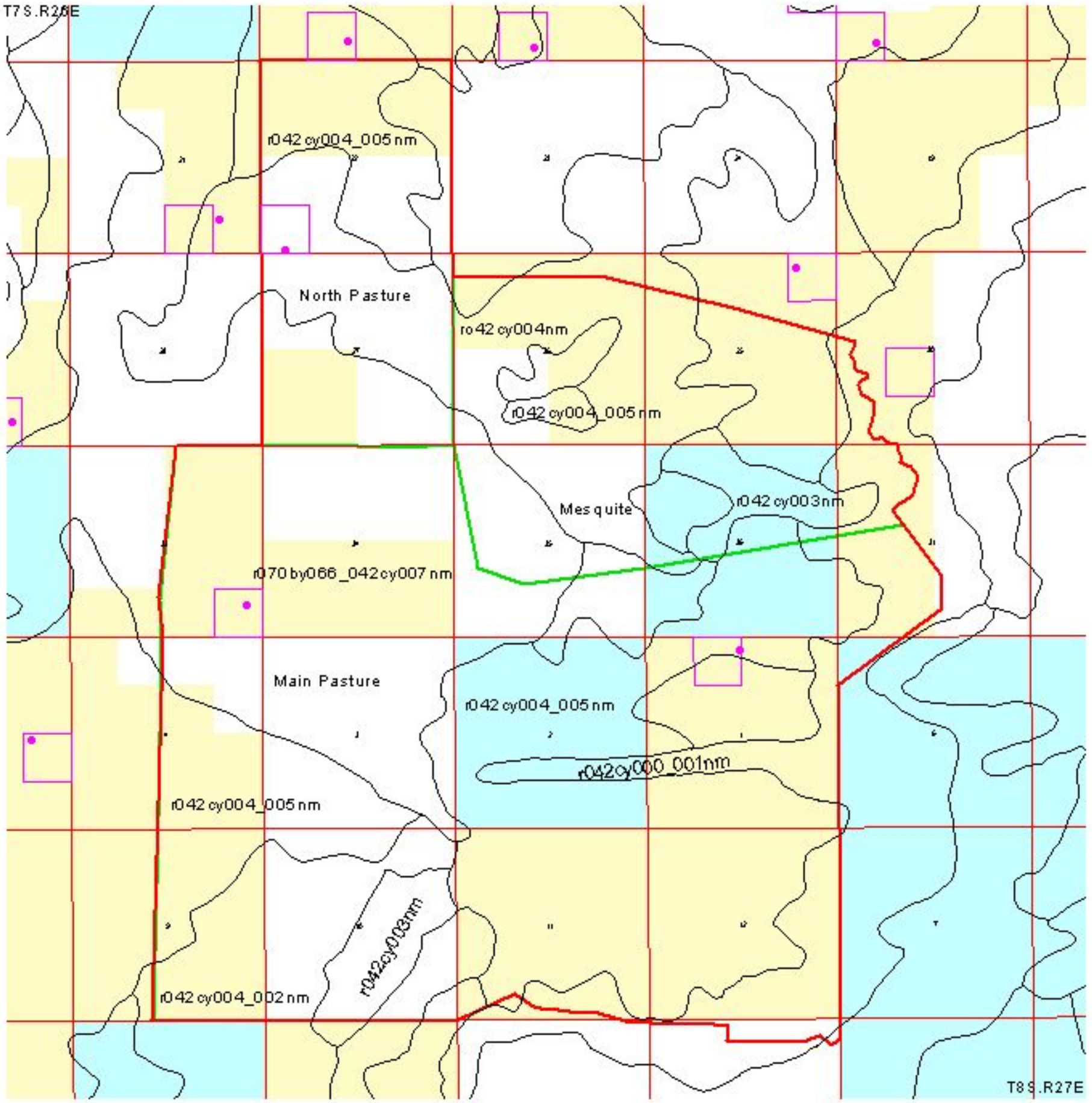
	3/6/1981	10/21/1982	10/27/1983	11/29/1984	10/27/1989	1/10/1995	1/24/2002
Forb	**3.00**	**12.00**	**0.00**	**57.00**	**11.00**	**0.00**	**8.00**
Grass	**131.00**	**440.00**	**76.00**	**536.00**	**251.00**	**584.00**	**241.00**
Shrub	**81.00**	**361.00**	**40.00**	**165.00**	**72.00**	**121.00**	**3.00**
Total	**215.00**	**813.00**	**116.00**	**758.00**	**334.00**	**705.00**	**252.00**

Report Parameters

SITE NAME LIKE	65025-NORTH-D065
ON/AFTER	10/01/1980
ON/BEFORE	09/30/2002

Rangeland Health Assessment
Ecological Sites

Allotment 65025

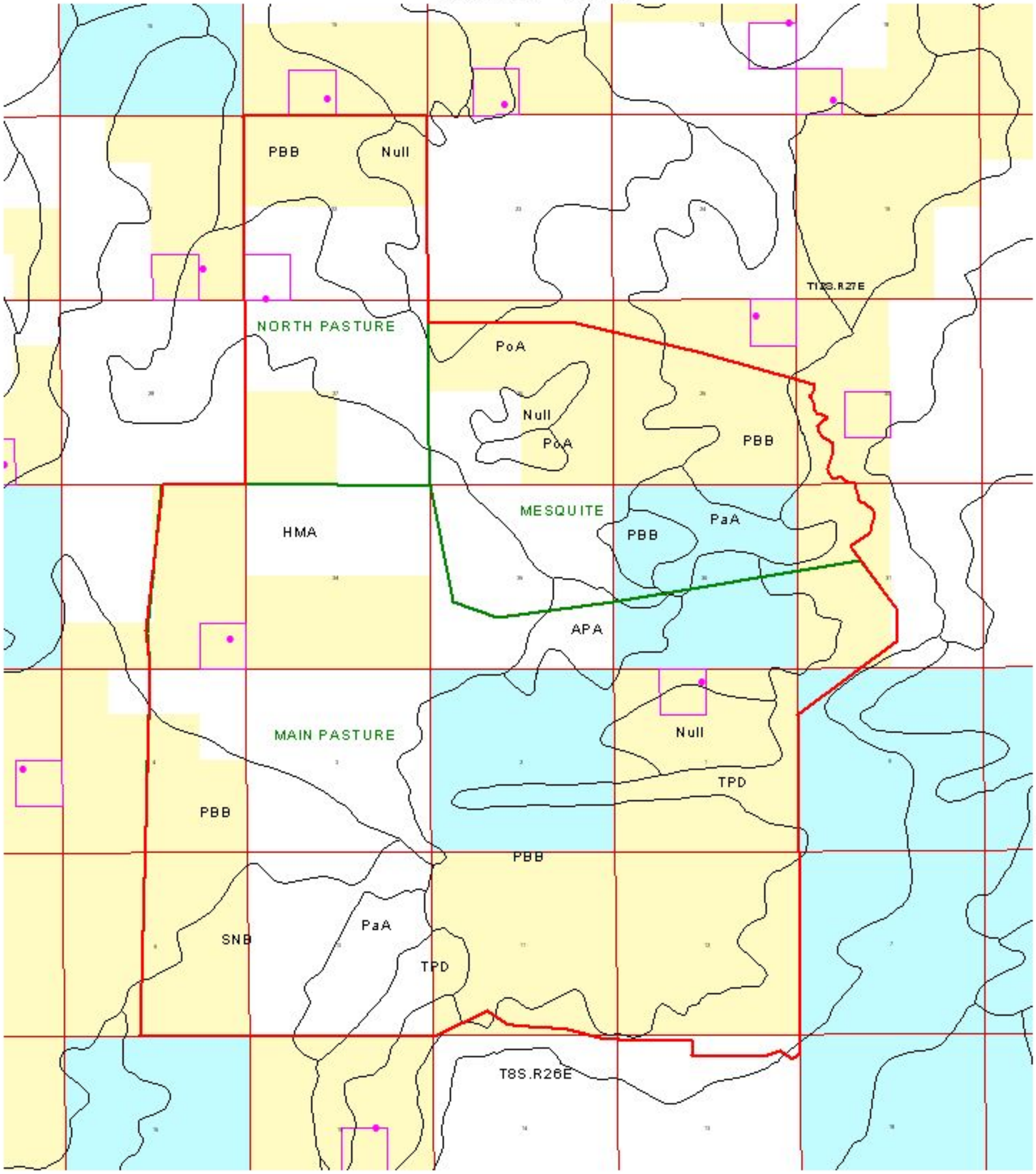


0.75 0 0.75 1.5 Miles

Public
Study Locations
State
Private
Study Plots
Pasture Boundary
Ecological Site Boundary
Allotment Boundary

Produced by the Roswell Field Office
GIS Intern on June 30, 2003.

Rangeland Health Assessment
Soil Mapping Units
Allotment - 65025



0.5 0 0.5 1 Miles

Study Plots
40 Acres

Study Locations

State

Private

Public

Allotment Boundary

Pasture Boundary

Soil Mapping Units

Produced by the Roswell Field Office
GIS Specialist on July 1, 2003.

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